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PRAXAIR SURFACE TECHNOL INC SPECIALTY POWDERS BUSI -- NI-365-3 -- 3439-01-426-5241

========= Product Identification ============

Product ID:NI-365-3 MSDS Date:01/27/1995

FSC:3439

NIIN:01-426-5241

MSDS Number: BZXWS === Responsible Party ===

Company Name: PRAXAIR SURFACE TECHNOL INC SPECIALTY POWDERS BUSI

Address:1555 MAIN STREET

City: INDIANAPOLIS

State:IN

ZIP:46224-3283 Country:US

Info Phone Num:317-240-2650

Emergency Phone Num:317-240-2209 Preparer's Name:MICHELLE ALEXANDER

CAGE:GO132

=== Contractor Identification ===

Company Name: PRAXAIR SURFACE TECHNOL INC SPECIALTY POWDERS BUSI

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State:IN

ZIP:46224-3283 Country:US

Phone:317-240-2650

CAGE:0FGH2

======= Composition/Information on Ingredients =

=========

Ingred Name:NICKEL (SUSPECTED ANIMAL/HUMAN CARCINOGEN BY IARC GROUP 2B, SUSPECTED CARCINOGEN BY NTP) *96-2*

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 50-75%

Other REC Limits: 1 MG/CUM

OSHA PEL:1 MG/CUM

ACGIH TLV:0.05 MG/CUM IC

Ingred Name: COBALT (ANIMAL CARCINOGEN BY IARC - GROUP 2B) *96-2*

CAS:7440-48-4

RTECS #:GF8750000 Fraction by Wt: 5-20%

Other REC Limits:0.05 PPM OSHA PEL:0.1 MG/CUM ACGIH TLV:0.05 MG/CUM

Ingred Name: CHROMIUM METAL, CHROMIUM, CHROME (KNOWN CAR

CINOGEN BY NTP;

IARC CARC - GROUP 3) *96-2*

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 5-20% ACGIH TLV:0.5 MG/CUM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:TANTALUM

CAS:7440-25-7

RTECS #:WW5505000 Fraction by Wt: 5-20% OSHA PEL:5 MG/CUM ACGIH TLV:5 MG/CUM

Ingred Name: ALUMINUM *96-2*

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 5-20% OSHA PEL:15 MG/CUM

ACGIH TLV:10 MG/CUM (DUST)

Ingred Name:TUNGSTEN (INSOLUBLE), WOLFRAM *96-2*

CAS:7440-33-7

RTECS #:YO7175000

Fraction by Wt:

1-5% ACGIH TLV:5 MG/CUM

Ingred Name:RHENIUM

CAS:7440-15-5 Fraction by Wt: 1-5%

Ingred Name: MOLYBDENUM (SOLUBLE COMPOUND)

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 1-5% OSHA PEL:5 MG/CUM ACGIH TLV:5 MG/CUM

Ingred Name: HAFNIUM

CAS:7440-58-6

RTECS #:MG4600000 Fraction by Wt: 1-5% OSHA PEL:0.5 MG/CUM ACGIH TLV:0.5 MG/CUM

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:Y

ES OSHA:NO

Health Hazards Acute and Chronic:SKIN: ALLERGIC DERMATITIS W/PAPULAR FORMATION IN SUSCEPTABLE INDIVIDUALS. EYES: IRRITATION & REDNESS OF THE CONJUNCTIVA, CORNEAL DAMAGE BY OVEREXPOSURE. INHALATION: RESPIRATORY TRACT IRRITANT. BURNING SENSATION, CNS DEPRESSION, INTERSTITIAL PNEUMONITIS & SENSITIZATION. INGESTION: CNS DEPRESSION & BURNING SENSATION.(SUP

Explanation of Carcinogenicity: SEE INGREDIENTS.

Effects of Overexposure:REDNESS, DRY/SCALY SKIN, FEVER, IRRITATI ON,

NAUSEA, ABDOMINAL PAIN, VOMITING, DIARRHEA, BURNING SENSATION, CHEST PAIN, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND, LESIONS, ITCHING, SORENESS

Medical Cond Aggravated by Exposure: ASTHMA & INFLAMMATORY/FIBROTIC PULMONARY DISEASE. EXISTING DERMATITIS.

First Aid:INGESTION: GIVE 2 GLASSES OF MILK/WATER. INDUCE VOMITING IF CONSCIOUS. SKIN: WASH THOROUGHLY W/SOAP & WATER. INHALATION: REMOVE TO FRE

SH AIR. GIVE CPR/OXYGEN IF NECESSARY. EYES: FLUSH THOROUGHLY W/PLE NTY OF WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES. NO SPECIFIC ANTIDOTE. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS & THE CLINICAL CONDITION.

============= Fire Fighting Measures ========================

Flash Point:NONE Lower Limits:NONE

Upper Limits:0

Extinguishing Media:DRY POWDER METAL EXTINGUISHING MATERIAL FOR METAL FIRES. APPROPRIATE EXTINGUISHER FOR COMBUSTIBLE MATERIALS Fire Fighti

ng Procedures:USE NFPA51 OXYGEN FUEL GAS SYSTEMS FOR WELDING & CUTTING. NFPA58 STANDARD FOR THE STORAGE & HANDLING OF LIQUIFIED PETROLEUM GASES.

Unusual Fire/Explosion Hazard:AIRBORNE DUST PARTICLES & ACCUMULATION SHOULD BE TREATED AS EXPLOSIVES.

======== Accidental Release Measures ===========

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS & DISPOSE OF PER WASTE DISPOSAL METHOD.

Other Precautions:ELECTRICITY CAN CAUSE FATAL SHOCK. DON'T TOUCH LIVE ELECTRICAL PARTS. ARC RAYS CAN BURN EYES/SKIN. FUMES/GAS/DUST CAN HARM YOUR HEALTH. AREA & SPARKS DURING SPRAYING CAN BE A SOURCE OF IGNITION OF COM BUSTIBLE MATERIALS. PREVENT FIRES.

====== Exposure Controls/Personal Protection ========

Respiratory Protection:IF THERE IS DUSTINESS, WEAR RESPIRATOR SELECTED PER OSHA 1910.134, & OSHA 29 CFR 1910.252 & ANSI Z49.1.

Ventilation:

LOCAL DUST PICK UP & VENTILATION RECOMMENDED

Protective Gloves: NOT REQUIRED

Eye Protection: GOGGLES PER OSHA 1910.13.

Other Protective Equipment: ANSI Z49.1, ANSI Z87.1, ANSI Z88, FOR HELMETS, FACE SHIELDS & GOGGLES.

Supplemental Safety and Health

OVEREXPOSURE MAY CAUSE SENSITIZATION IN SUSCEPTABLE INDIVIDUALS. CAN CAUSE POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND & DAMAGE TO THE ALPHA CELLS OF THE PANCREAS. REPEATED INHALATION CAN CAUSE EMP HYSEMA/PULMONARY FIBROTIC DISEASE.

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|---|
| Boiling Pt:B.P. Text:NONE Vapor Density:>1 Appearance and Odor:GRAY POWDER Percent Volatiles by Volume:0 |
| ======== Stability and Reactivity Data ========= |
| Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:ACCUMULATION OF DUST PARTICLES, ARC RAYS SPARKS & OTHER IGNITION SOURCES Hazardous Decomposition Products:BY THERMAL SPRAYING: OXIDES, SUB-OXIDES & COMPLEX OXIDES OF MATERIALS |
| ====== Disposal Considerations ========= |
| Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS. |
| Disclaimer (provided with this information by the compiling agencies): |

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